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Datasheet for ABIN1096795

**GADD45G Protein (AA 1-159) (His tag)**

## Overview

Quantity:	50 µg
Target:	GADD45G
Protein Characteristics:	AA 1-159
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GADD45G protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human GADD45γ/GADD45G (N-6His)
Sequence:	MGSSHHHHHH SSGLVPRGSH MTLLEVRGQD TVPESTARMQ GAGKALHELL LSAQRQGCLT AGVYESAKVL NVDPDNVTFC VLAAGEEDEG DIALQIHFTL IQAFCCENDI DIVRVGDVQR LAAIVGAGEE AGAPGDLHCI LISNPNEAW KDPALEKLSL FCEESRSVND WVPSITLPE
Characteristics:	Recombinant Human Growth Arrest and DNA Damage-Inducible Protein GADD45gamma/GADD45G is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Glu159) of Human GADD45G fused with a 6His tag at the N-terminus. and a 6His at the C-terminus
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	GADD45G
Alternative Name:	GADD45G ( <a href="#">GADD45G Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Growth Arrest and DNA Damage-Inducible Protein GADD45 Ypsilon (GADD45G) is a nuclear protein which belongs to the GADD45 family. GADD45G is highly expressed in placenta. GADD45G interacts with various proteins whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. GADD45G responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. GADD45G is also involved in the regulation of growth and apoptosis. GADD45G inhibits cell growth and differentiation by androgens. The mRNA expression is down-regulated in hepatocellular carcinoma.</p> <p>Alternative Names: Growth Arrest and DNA Damage-Inducible Protein GADD45 Gamma, Cytokine-Responsive Protein CR6, DNA Damage-Inducible Transcript 2 Protein, DDIT-2, GADD45G, CR6, DDIT2</p>
Molecular Weight:	19.28kDa
UniProt:	<a href="#">O95257</a>
Pathways:	<a href="#">Cell Division Cycle</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p>

## Handling

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Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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Expiry Date: 3 months